

LIQUID-TIGHT JOINT OPTIONS 8

2 0 HYDROPHILIC WATERSTOP NON-METALIC WATERSTOP (PVC)

2 PLACEMENT OF NEW CONCRETE.

THE SLAB AND WALL MAY BE POURED AT THE SAME TIME ELIMINATING THE NEED FOR A CONSTRUCTION JOINT.

WATERSTOP

SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO CONSTRUCTION JOINT OPTIONS

CORNER DETAIL (PLAN VIEW)

Date

6/23/05

MIN. LAP SPLICE 1,-0, MIN. LAP SPLICE



## RESTRAINING SLAB OPTIONS SLAB CORNER DETAILS SEE PA-023 SEE PA-024

MAX. BACKFILL

A #4 @

C #4 @

3" TO CENTER OF BAR

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## GENERAL DESIGN NOTES:

- DRAINAGE SHALL BE AWAY FROM THE WALL.
  THE MINIMUM WIDTH OF THE BACKFILL AGAINST THE WALL SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL HEIGHT.
- MAXIMUM FOOTING CONTACT PRESSURE IS 480 psf/ft.

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#4 0

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 $\frac{\text{DESIGN STRENGTHS:}}{\text{CONCRETE}} \quad \text{WORKI}$ WORKING STRESS DESIGN
20 psi • STEEL f<sub>S</sub> = 20,000 psi (GRADE 40)

WALL DESIGN LOADING: 313 STANDARD — LATERAL EARTH

SEE SECTION IV OF THE FIELD OFFICE

\*MANURE LOAD INSIDE = 65 psf/ft.

\*SOIL BACKFILL LOAD OUTSIDE = 60 psf/ft.

\*SURCHARGE LOAD = 120 psf PRESSURE VALUES, TECHNICAL GUIDE.

- ${\circ}$  SOIL BACKFILL DENSITY = 100 pcf.  ${\circ}$  WATER TABLE MUST BE BELOW THE FOOTING ELEVATION
- WALL RESTRAINT REQUIREMENTS: \*5" THICK SLAB, SAFETY FACTOR AGAINST SLIDING 1.5 MIN.

MARK

SIZE

QUAN

TYPE

S

LENGTH

TOTAL

CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION REQUIREMENTS.
 SUBSTITUTION OF GRADE 60 BARS IS PERMITTED.
 MINIMUM SPLICE LENGTH FOR MARK (B) AND (C) BARS IS 12"

STEEL #4 CONCRETE

(0.668 LBS./FT)

LBS. .CU. YDS.

(0.1975 CU.YDS./LIN.FT.)

ESTIMATED QUANTITIES

STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

5'-3" 8'-5"

SCHEDULE 70

STR

#4 BARS,

TOTAL LENGTH

TOTAL LENGTH OF WALL

TYPE 2 BAR

NOTES:

DIMENSIONS ARE TO THE REINFORCING BAR SURFACE UNLESS OTHERWISE NOTED.

BACKFILL OF 2 FEET IS RECOMMENDED FOR FROST PROTECTION.

3 FEET 2 FEET 1 FOOT 0 FEET	BACKFILL HEIGHT (OUTSIDE LOAD)
28 FEET 13 FEET NO SLAB NO SLAB	SLAB LENGTH NO INSIDE LOAD
NO SLAB NO SLAB	SLAB LENGTH FULL INSIDE LOAD

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC S WITH THE WISCONSIN DEPARTMENT OF AGRICULTURAL, TRADE AND O IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MAD SITE. IT WAS DEVELOPED IN COOPERATION CONSUMER PROTECTION. THE DESIGN FOLDER ADISON, WI. 53717-2906

(ADAPTED FROM WI-530, APRIL 2005)

File No. PA-019A

PA-019A 11/07/07 15:19

COUNTY, PENNSYLVANIA

3' HIGH, 6" L-WALL (W/SURCHARGE)